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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/540,235  
DATE: 06/14/2000  
TIME: 08:57:55

Input Set : N:\COPIES\PTOIES.txt  
Output Set: N:\CRF3\06142000\I540235.raw

P.S

1 <110> APPLICANT: Fisher, Dane K.  
2 Lalgudi, Raghunath V.  
4 <120> TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses  
5 thereof  
7 <130> FILE REFERENCE: 38-21(15749)B  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/540,235  
C--> 9 <141> CURRENT FILING DATE: 2000-04-03  
9 <150> PRIOR APPLICATION NUMBER: 60/128,439  
11 <151> PRIOR FILING DATE: 1999-04-06  
13 <160> NUMBER OF SEQ ID NOS: 5674  
15 <210> SEQ ID NO: 1  
16 <211> LENGTH: 408  
17 <212> TYPE: DNA  
18 <213> ORGANISM: Cyanidium caldarium  
20 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-A12  
22 <400> SEQUENCE: 1  
24 acgccgtcga ttgagaatta cgagttgctt tcgagttctcg gctgttggtt catattatct 60  
26 ttgtctgaaa gcgttttggg cttgtatcag tcgccatgaa gtattccaaa gttgtatcgt 120  
28 cgtctagaag aaagcagagg aaagcatact ttcaagcacc atcttctgta cgacgaatac 180  
30 tcatgagtgc acccttgtcc aaggaaactac gtacgaaata cagcgttctg tctttaccta 240  
32 ttcgaaaaaga agacgaagta atcatagtcc gcggagcttt caagggtaga gaaggaaaag 300  
34 ttacaacgtg ttatcgaaag aaatatcgga tacatatcga gagagtgacc agagaaaaag 360  
36 cgaatggaat gactgtacct gtgggaatac atccatctaa tgttgta 408  
39 <210> SEQ ID NO: 2  
40 <211> LENGTH: 73  
41 <212> TYPE: DNA  
42 <213> ORGANISM: Cyanidium caldarium  
44 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-A3  
46 <400> SEQUENCE: 2  
48 agggcggcgt cataatagaa atccgaaagg agtagaagaa aagagagaga agaaagagaa 60  
50 gaagagaaaa gcc 73  
53 <210> SEQ ID NO: 3  
54 <211> LENGTH: 415  
55 <212> TYPE: DNA  
56 <213> ORGANISM: Cyanidium caldarium  
58 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-A5  
60 <400> SEQUENCE: 3  
62 ggcggcgtca taatagaaat ccgaaaggag tagaagaaaa gagagagaag aaagaaaaga 60  
64 agagaaaagc cgtactgaag accgacacag gtactcgagg agaaaaggaga cccaaattaa 120  
66 ggtgagagaa tggacgataa ggaactaggc aaaaggatat ggtatctgcg gtagaacata 180  
68 tgaaagaagc agcaccgact gtttagcaaa aacacagcac tctgcagaaa agagaaaatg 240  
70 taaagtatat agtgtgctggc ctgccaaata gtagagaaga aatcgatgaa agtgaaagcg 300  
72 agtaaaagat gaggtataga gaatggcggc cctaactgta aggatccaaa ggtagcgaag 360  
74 taaatagacg tttgaaaggc gtccagtatg aaaggagaaa cgagtgtagc actgt 415  
77 <210> SEQ ID NO: 4  
78 <211> LENGTH: 350  
79 <212> TYPE: DNA

ENTERED

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80 <213> ORGANISM: Cyanidium caldarium
82 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-A6
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86 gaggaagaa agatcaagga agtaagagta agagaaggag taatgtgaat gaaagcagga 60
88 aagtatttga agaagagagt gtaaacgcgc taccttttgc ataattgtccc agcgagtga 120
90 agaggaagca taaaaaaaaa agaactaagc aaaaagaaaa aaaaacagca gaaaaaaaaat 180
92 atgaaaaaaaa caacaccaac agttaaaaaa aaacacacaac actcagcaaa aaaaaaaaaa 240
94 atgtaaaata aagaatgtga cggactgccca aaaaaaaaaa aaaaaggcg agcaccctga 300
96 aagggtactaa ccttatgagg tatacagaat gacggtacta actgtaaaaga 350
99 <210> SEQ ID NO: 5
100 <211> LENGTH: 413
101 <212> TYPE: DNA
102 <213> ORGANISM: Cyanidium caldarium
104 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-A8
106 <400> SEQUENCE: 5
108 ctagtattatt aaccttttcta agaattggtg cctttgtgtt tgggtgtagct gcaggttttg 60
110 gaagtgtctc agcggaccat cgtaaaagag aaaaaatttt aatttctaaa attcacgagc 120
112 gcaatgccaa aattgaggcg ttgaaaagtg aactaaagca actgaaaggg gaaattccag 180
114 cttctacagg tgatccagtt caagattggt tgaatcaatt ggaataagat gtatatgtta 240
116 caagtgcctt gtggaagaga gagatagtca tttgaataaa attagttctt tcccaacaa 300
118 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 360
120 aaagaaagag ctgaaaaaaaa aaattagagt aaaaaaaaaa aaaaaaggg ggg 413
123 <210> SEQ ID NO: 6
124 <211> LENGTH: 410
125 <212> TYPE: DNA
126 <213> ORGANISM: Cyanidium caldarium
128 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-A9
130 <400> SEQUENCE: 6
132 cccacgcgtc cgcccacgcg tccgcccacg cgtccgccc cgcgtccgcc cacgcgtccg 60
134 cccacgcgtc cgatttttgt caaaatttca caaagagata tgcataccta agatatccca 120
136 agattgggtc atggagaaga agaattgga ttggcagaat ctttagtcg tgaaggtcga 180
138 gtcaactata tgttacagaa aagattggat gatttgcaac tagtgaagca gttggcagag 240
140 tctttgttgt tacctggcga ttatggttat tcttgtaaa atgcaactct gctatatcat 300
142 acgcatgtgc tgccattgaa aaaggagttt ttgtctcaac tgtatcaaa acaagaccac 360
144 tccaacatat catcgtggat agctcaacat tttccatttc atagtttttt 410
147 <210> SEQ ID NO: 7
148 <211> LENGTH: 271
149 <212> TYPE: DNA
150 <213> ORGANISM: Cyanidium caldarium
152 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-B11
154 <400> SEQUENCE: 7
156 cgaagatatt cttgacgccca aaaacgcatt ggaacacctg agtgggttca atgtagctgg 60
158 tcgatacctt attgtattgt atcatcaacc ggagaaaatg aaaaagaatg aggagaataa 120
160 agtgtagaag gttgtttgta acgtagagta tgcataattg gtttgaccag cgtttggaac 180
162 tttgtagcta ttatccccgt ggacgtatgt gaatagtctt ggaatgactc cagcagtagg 240
164 agaaggctat taaaagtgtat ggtttattgt g
271
167 <210> SEQ ID NO: 8
168 <211> LENGTH: 433
169 <212> TYPE: DNA

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170 <213> ORGANISM: Cyanidium caldarium
172 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-B3
174 <400> SEQUENCE: 8
176 gaaaaaagtg tgcacaacat caactttcac agcagcaatg tcacctgttt agcgttgaaa 60
178 gataaaaggtc cactcgtggc aacttgttca gaagacaagt ccgtagcgtt gtgggacctt 120
180 cgagtcacgg ccccgctgca gagcttgaag tgctctcacc ccctgagttg tgtatcttat 180
182 ggaagagatg actcagaaat cataacatca gactatagtg gttcggcaag gatatggaat 240
184 attgaaacaa atcgacaaat tggctgttta cagactcgcg actcttctat tctcacaggt 300
186 tttcttcacg atacagcccg ctactatatt attatgtttg gaagctctgg atacgtatac 360
188 atcagtcctac taaactccaa acggggaaca ggagagcgta aacttcgact taaatatgta 420
190 cacgggaaat cta 433
193 <210> SEQ ID NO: 9
194 <211> LENGTH: 441
195 <212> TYPE: DNA
196 <213> ORGANISM: Cyanidium caldarium
198 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-B5
200 <400> SEQUENCE: 9
202 agctcgtgag atgcgttaag ttatgtcaga aacgagtgat atatccaact gcagcaactt 60
204 gtgttacata ctgtctctg ttggtactgt ttagccatc ctcttcactg cttcgttggt 120
206 aggactcgtt tcacgaagaa gaagtcaacg aatacgagag ttccgaacc cgttactaga 180
208 tgaagagttt gccgaaagtg ttcgctcgga cgaattgggt cgctatttcc tggaaagagt 240
210 tgtaatggaa gagtttcttt tagtagatga aacgggcaag tctttgttcc cccctttaac 300
212 actaaaccgg gacaatgttg agactgtata tctgaggtg tcttttgaac gtcactctgc 360
214 ttgtggtaag ggagagagta gtacacctga agtggtgttt ttagtatatg gtcagacga 420
216 aatttaattcg cagaatgttg t 441
219 <210> SEQ ID NO: 10
220 <211> LENGTH: 424
221 <212> TYPE: DNA
222 <213> ORGANISM: Cyanidium caldarium
224 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-B6
226 <400> SEQUENCE: 10
228 acaacgcgtc atgccataag ttagatcaaa gtttagtgat aaatccagct gcagcaactt 60
230 gtgtcatata tgtgtcactg ttggtactgt tattgccatc atcatcattg cttcgatggg 120
232 atgacgcatt tcacaaagaa gaatcatcga agtatagagt ttccgtgacac gtcagtagat 180
234 ttatagtttg ctgacagtgt tcgatcggag gatattggtc gctatttcct gcaaagagtt 240
236 gtaatgtag agtttctttt agtatatgaa acgggcaagt cgtttgttcc cctttaaca 300
238 ctaaacgggg acaatgtgga gactgtatat cctgaggtgt cctttgaacg tcatctcgct 360
240 tgtggtaacg gagagagtag tacacctgaa atggtgtttt gtagtatatg tccagacgaa 420
242 atta 424
245 <210> SEQ ID NO: 11
246 <211> LENGTH: 393
247 <212> TYPE: DNA
248 <213> ORGANISM: Cyanidium caldarium
250 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-B8
252 <400> SEQUENCE: 11
254 cgattttgag ttccgcttga atgatggttc tactgtaaag ttaggtccct tactcaatat 60
256 gaaacttact gatgatgatg ttgctgctgg tctatccaat aatcgggtgt tgcaggctgc 120
258 atttattatt ttacgtgacg aaaagaaacc attagatgcy aaagctcttg ctgaacgcgc 180
260 atcggaagg ggattccact gtctctcttt gatgccaat aatacattct ctagccaaat 240

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262 atatcgtaat atgaagagaa agaaggaaca ttctgcattt tataaagtca ataatgggga 300
264 attcgggtcta aaaatttggc ttctgtgagga agccaatgcc aagatggagg acggagaaac 360
266 aaacaagaaa actcatcaag gcaccgtatc tga 393
269 <210> SEQ ID NO: 12
270 <211> LENGTH: 399
271 <212> TYPE: DNA
272 <213> ORGANISM: Cyanidium caldarium
274 <223> OTHER INFORMATION: unsure at all n locations
275 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-B9
277 <400> SEQUENCE: 12
279 cccacgcgtc cgcggacgcg tgggatacag ttctcttcac ttgtggttgg gattgttgcg 60
281 caatgttcaa gtcgctagct ttattttcca tctatttgaa atatccacgc tgcagtagct 120
283 cgggtgcaaac aaacgcagca cgaacaatat ggaacacctt attatcaacg tatcaacaga 180
285 gactttatc cggaaatgtcc gttgatattc ggtgggtcac ttacaaaaac cgaagtcgt 240
287 acacttcaa gataactaag ttcaagtctt cctattccac acaaggagga gacacggagg 300
289 gcaagatacc tcattctaaa gatatgaaag gagaacctca gtcgcgttca gatgcttacg 360
W--> 291 acaagacttg ggctaaagaa aacttcanag acacttctg 399
294 <210> SEQ ID NO: 13
295 <211> LENGTH: 454
296 <212> TYPE: DNA
297 <213> ORGANISM: Cyanidium caldarium
299 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-C1
301 <400> SEQUENCE: 13
303 cccacgcgtc cgggcggcgt cataatagaa atccgaaagg agtagaagaa aagagagaga 60
305 agaaagaaaa gaagagaaaa gccgtactga agaccgacac aggtactcga ggagaaagga 120
307 gacccaaatt aaggtgagag aatggacgat aaggaaactag gcaaaaggat atggtatctg 180
309 cggtagaaca tatgaagaaa gcagcaccga ctgttttagca aaacacagc actctgcaga 240
311 aaagagaaaa tgtaaagtat agagtgtgct gcctgccaaa tagtagagaa gaaatcgatg 300
313 aaagtgaag cgagtaaaag atgaggtata gagaatggcg gtcctaacag taaggatcca 360
315 aaggtagcga agtaaataga cgtttgaaa gctgccagta tgaaaggaga aacgagtgtg 420
317 gcaactgtcta gtcgtccaac tcagcgaaac agca 454
320 <210> SEQ ID NO: 14
321 <211> LENGTH: 354
322 <212> TYPE: DNA
323 <213> ORGANISM: Cyanidium caldarium
325 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-C10
327 <400> SEQUENCE: 14
329 acccagcgtc ccgaaaaggg tacaaggact ttgtattcct tgttacttgt tgcccgggtg 60
331 aagataagct cgttgaaaa gacgggctac cgagtattaga accgtactcg gaataaccgg 120
333 ctccaacaac ggcacatata actaatatag ttatttggcg tggtttggaa aaaaatgttg 180
335 ggaactaatt taccgcagga aaaagaactc gacaggagct ttgtcgaaat gatgttcgtg 240
337 taattcaaca cgatatagct gcaggctctt cagatatata agttgtcgaa acactattga 300
339 tacctcccaa tgtgcatatt tcaaaacaaa agtttcgtct cctagtgttg aggt 354
342 <210> SEQ ID NO: 15
343 <211> LENGTH: 386
344 <212> TYPE: DNA
345 <213> ORGANISM: Cyanidium caldarium
347 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-C11
349 <400> SEQUENCE: 15

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351 gaaagcatag gaagtgaaac ggattaggaa cccgtgtagt ctatgcagta aaagaaagaa 60
353 tgagtaagaa aaaagggagt cattccacca ggggagtaaa ggcgcaagaa agaaacccaa 120
355 agcaattgac gggaatcgga aaaaggggtg gatcacgtaa attaatccga taaaccgaga 180
357 accttacctc tccaagaagg tggtgcacgg ctgtcgaaag aacgtgctgt gaagtgagag 240
359 aacgtacgag aaagccaagt gaggaagaa aggcaagtag agggcgggcc gagaaaggag 300
361 agggcgtaag acgtgatata gattaggaag aaaagagaag agagctagaa agggaggttaa 360
363 agaagagtaa aaggactaga agaggt
366 <210> SEQ ID NO: 16
367 <211> LENGTH: 407
368 <212> TYPE: DNA
369 <213> ORGANISM: Cyanidium caldarium
371 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-C12
373 <400> SEQUENCE: 16
375 aattgaaaaa aaatataata ataaaatata taaaaacata caaaaaatc cttttataat 60
377 attattagtt attgatttta tcaaaactatt ttttttaaaa tcaattgata gtaaatcac 120
379 ttttaattgtc ataaaatcaa ttttaactaa ctataactaa ttagaataaa atgaaaaata 180
381 aacttaaaac tttacgtgca gctttaaaga gatttactat aacaggaaat aaaaaaatat 240
383 tacattataa agttggaaaa aatcatctac taagtaaaaa gaataaaaaa agaaaaagac 300
385 atttatctgt taaagttaata attaatgaat atattaaaa agcacaaatt aataaattat 360
387 tgccatataa ttaaatatat ggagatgaat aaatataaaa ataatat 407
390 <210> SEQ ID NO: 17
391 <211> LENGTH: 407
392 <212> TYPE: DNA
393 <213> ORGANISM: Cyanidium caldarium
395 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-C2
397 <400> SEQUENCE: 17
399 gcgccaatcc agaagaaaaa aattcaattt taatggaaga agaaaccttg tagtaaaactt 60
401 tattggaaaa ttcttttgcc tgtcccttat cttagtattg catcacaatg tttggagatc 120
403 atcccttaaa tgctgttgag gaaaacatgg cgacatttac ggcacgctc aagcagctct 180
405 ggaatcatcc agcgggacct aaaacagtgt ttttttgggc tcctaccatg aaatgggctt 240
407 tgggtgggtgc aggcctgtcc gatatgaagc gccccctga gaaactttcc gtacctcaaa 300
409 acctagcttt ggctgttact ggagttatct gggttcgata tagttttgta ataaccaccg 360
411 taaactataa cttggcactg gtcaatacct ttgatgggtgc taccgggt 407
414 <210> SEQ ID NO: 18
415 <211> LENGTH: 417
416 <212> TYPE: DNA
417 <213> ORGANISM: Cyanidium caldarium
419 <223> OTHER INFORMATION: Clone ID: LIB190-001-Q1-E1-C5
421 <400> SEQUENCE: 18
423 attacctcta gtggcgctgc ataaagaaat tccaaggagt gctatcgttg agttgaagac 60
425 agaactgcaa agacgcggct ctgacctgtg cgtcttgccc aagttttgta cggactccat 120
427 ccttgagata tgccataaat acggaataga agctatctac tacaactatg ccgagctccc 180
429 agaccaaatg cagcttcaga atgatatgat tactgatttg gagaatagag gtgttcaagt 240
431 caaagggttt tggagcaata ctctgtctc tccagagcag atggaaaaca taaagcttc 300
433 agatattgga tttaggaagt ttccacagga agcgaagaat gtgaagactt ctgaacctct 360
435 tcgtactcca gacaagttac ctcgtgttcc tgaagacatt ccaacgagaa tggtaga 417
438 <210> SEQ ID NO: 19
439 <211> LENGTH: 388
440 <212> TYPE: DNA

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:291 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12  
L:291 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12  
L:291 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12  
L:291 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12  
L:448 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19  
L:448 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:19  
L:448 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:19  
L:448 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19  
L:629 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:26  
L:629 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:26  
L:629 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26  
L:629 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:26  
L:704 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29  
L:704 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:29  
L:704 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:29  
L:704 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:29  
L:779 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:32  
L:779 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:32  
L:779 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:32  
L:779 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
L:966 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:40  
L:966 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:40  
L:966 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:40  
L:966 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:40  
L:1109 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:46  
L:1109 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:46  
L:1109 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46  
L:1109 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:46  
L:1204 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:50  
L:1204 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:50  
L:1204 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:50  
L:1204 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:50  
L:1221 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:51  
L:1221 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:51  
L:1221 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:51  
L:1221 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:51  
L:1344 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:56  
L:1344 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:56  
L:1344 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:56  
L:1344 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:56  
L:1346 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:56  
L:1346 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:56  
L:1346 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:56  
M:340 Repeated in SeqNo=56  
L:1352 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:56  
L:1352 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:56

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L:1352 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:56  
 L:1356 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:56  
 L:1356 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:56  
 L:1356 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:56  
 L:1539 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:64  
 L:1539 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:64  
 L:1539 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:64  
 L:1539 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64  
 L:1558 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:65  
 L:1558 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:65  
 L:1558 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:65  
 L:1558 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:65  
 L:1591 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:66  
 L:1591 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:66  
 L:1591 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66  
 L:1591 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:66  
 L:1604 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:67  
 L:1604 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:67  
 L:1604 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:67  
 L:1655 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:69  
 L:1690 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:70  
 L:1751 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:73  
 L:1894 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:79  
 L:2041 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:85  
 L:2108 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:88  
 M:340 Repeated in SeqNo=88  
 L:2133 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:89  
 L:2206 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:92  
 L:2375 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:99  
 L:2488 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:104  
 L:2933 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:123  
 L:3392 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:143  
 M:340 Repeated in SeqNo=143  
 L:4097 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:172  
 L:4588 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:193  
 L:4873 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:206  
 L:5096 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:216  
 M:340 Repeated in SeqNo=216  
 L:5447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:231  
 M:340 Repeated in SeqNo=231  
 L:5520 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:234  
 L:5585 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:237  
 L:5878 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:249  
 L:6027 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:255  
 L:6120 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:259  
 L:6443 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:273  
 L:6544 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:277  
 L:6599 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:279  
 L:6810 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:288

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/540,235

DATE: 06/14/2000

TIME: 08:57:56

Input Set : N:\COPIES\PTOIES.txt

Output Set: N:\CRF3\06142000\I540235.raw

L:6911 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:292  
L:7118 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:301  
L:7167 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:303  
M:340 Repeated in SeqNo=303  
L:7214 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:305